The Commonwealth of Massachusetts

STATE COLLEGE AT WORCESTER

Fall—1964

Program of Continuing Studies

Beginning September 21, 1964

UNDER THE AUSPICES OF

DIVISION OF STATE COLLEGES

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SCHEDULE OF CLASSES

NOTE: Courses carrying undergraduate credit only are numbered in the 700 series; courses carrying both undergraduate and graduate credit are numbered in the 800 series; and courses carrying graduate credit only are numbered in the 900 series. Assistance in selecting and registering in all courses is available in Room G-25 in the Gymnasium-Library Building, the W.S.C. Office of the Program of Continuing Studies . . . Worcester 791-1405.

ALL COURSES CARRY THREE SEMESTER HOURS OF CREDIT

No.	*Course Title*	*Instructor*	*Room*
MONDAYS, 4:30-7:15 P.M., BEGINNING SEPTEMBER 21, 1964			
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F-910	Case Studies in School Adjustment Counseling	To be announced	211
F-832	Civic Behavior — Democracy's Test	Robert W. Goss	G-23
F-836	Problems of U.S. Diplomacy: The Middle East	Francis L. Jones	204
F-913	Organization and Administration of Elementary School (School Administration II)	George Joseph	309
F-902	Psychological Foundations of Education, Part I, Sec. A	Joseph C. Lonergan	312
F-844	Health Science	William K. Masterson	205
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TUESDAYS, 4:30-7:15 P.M., BEGINNING SEPTEMBER 22, 1964			
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F-830	The Teaching of Music in Elementary Schools	Thomas H. Carpenter	104
F-807	Supervision in Today's Schools	Elizabeth V. Foster	211
F-838	Political and Intellectual Movements of Modern Europe	Edwin R. Hedman	305
F-863	Methods and Materials in Teaching the Physical Sciences	Melvin Merken	105
F-848	Trigonometry	Edmund C. Osborne	103
F-908	Techniques of Counseling, Guidance III	Joseph P. Scannell	G-23
F-809	Tests and Measurements	Ruth V. Somers	309
F-906	Research and Evaluation	William L. Sullivan	G-24
WEDNESDAYS, 4:30-7:15 P.M., BEGINNING SEPTEMBER 23, 1964			
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F-800	The Improvement of Instruction	Ruth Griffiths	211
F-903	Psychological Foundations of Education, Part II, Sec. B	Achille A. Joyal	G-22
F-902	Psychological Foundations of Education, Part I, Sec. B	George F. Madaus	312
F-812	Principles and Practices in Guidance I	Paul J. McCarron	G-23
F-846	Modern Mathematics for Elementary School Teachers	Paul F. O'Neil	309
F-829	Urban Geography	Richard W. Reseska	203
F-890	Spanish	Katharine M. Shea	208
F-816	Dramatic Interpretation and Direction	Robert E. Todd	205
THURSDAYS, 4:30-7:15 P.M., BEGINNING SEPTEMBER 24, 1964			
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F-885	School Library Organization and Administration	William D. Joyce	G-24
F-813	Modern Trends and Techniques in Early Childhood Education	Elizabeth A. Mahan	G-22
F-820	The Modern Essay — An Emphasis on Perception and Judgment	Kathryn R. O'Donnell	G-23
F-905	Diagnostic and Remedial Techniques in Teaching	Helga E. Peterson	208
F-902	Philosophical Foundations of Education, Part II	Joseph W. Riordan	302
F-907	Occupational Information, Guidance V	G. Flint Taylor	204
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F-911	Educational Data Processing — School Administration	James W. Daily	

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GENERAL INFORMATION

The courses announced in this bulletin are offered by the Division of State Colleges in cooperation with the State College at Worcester. **The Division of State Colleges reserves the right to cancel any course which does not have a minimum of 20 enrollments.**

Both graduate and undergraduate courses are offered: courses carrying undergraduate credit only are numbered in the 700 series; courses carrying both graduate and undergraduate credit are numbered in the 800 series; courses carrying graduate credit only are numbered in the 900 series.

REGISTRATION

Registration should be made on September 14th through September 18th or during the first week of the Fall Session at the State College at Worcester, Massachusetts.

To facilitate course selection, provisions have been made for registration in advance by mail. The registration blank found on the last page should be forwarded to the college immediately. Registration fees must be paid by check or money order to the State College at Worcester. Cash will not be accepted. Assignments to classes which are or might be sectioned, or assignment to classes with maximum registrations, will be made in the order of completed registrations.

1. The tuitoin fee for residents of Massachusetts is $18.00 per semester hour of credit; for non-residents, $25.00 per semester hour of credit; and for auditors, $11.00 per semester hour.
2. LATE REGISTRATION FEE — (Required of all, including veterans, after the first class meeting) $2.00.
3. Change of Course Fee — Payable for any change of registration after the first class meeting except when a course is cancelled, $2.00.
4. All students in the Fall Semester, including veterans, must pay a $2.50 registration fee. UNDER NO CIRCUMSTANCES WILL ANY OF THE REGISTRATION FEES BE REFUNDED.

VETERANS

Any resident of Massachusetts who has served in any branch of the armed service for at least **90 days**, one of which must have been served either between **September 16, 1940**, and **December 31, 1946**, or between **June 25, 1950**, and **January 31, 1955**, and who has a discharge other than dishonorable may enroll without charge for instruction in any course here offered with the established limitation of 120 semester hours. To establish his eligibility the veteran must present his discharge (or a photostatic copy) or certificate of satisfactory service in the case of officers, together with proof of residence, in advance of the opening date of class meeting.

Disabled veterans may also take extension courses without charge. The disabled veteran should obtain a certificate of disability from the United States Veterans Administration and a residence certificate from

the Board of Assessors or from the Town or City Clerk establishing either six months' residence prior to entry into service or five years' residence prior to date of application.

CREDIT

Regulations and requirements for degree study may be obtained at the office of the Director of Continuing Studies, State College at Worcester. It is urgently recommended that the guidance and advice of the Director be sought and faithfully followed in planning a program of study. For teachers in service, a maximum of six semester hours of credit per semester may be credited toward a degree.

The GRADUATE RECORD EXAMINATION, required of all graduate students, will be conducted at the State College at Worcester on Saturday, in mid-November, 1964. The Bulletin of Information and Application Blanks can be secured at the Director's Office, Room G-25, Gymnasium-Library Building, State College at Worcester, Mass. Registration through the Educational Testing Service, Princeton, New Jersey, closes in late October, 1964.

The degree of Master of Education is awarded at the State Colleges at Boston, Bridgewater (including Hyannis Summer Session), Fitchburg, Framingham, North Adams, Salem, Westfield, and Worcester. Graduate courses in partial fulfillment of the requirements for this degree may be offered from time to time in the other State Colleges and the Massachusetts College of Art.

The Comprehensive Examination will be conducted on Friday, November 20, 1964, at 4 p.m. Graduate students who will have completed their formal course work in the required areas by the end of the Fall Session will be eligible to take it.

Registration for the 1965 Spring Session will be conducted from January 18th through January 22nd and on the first day of each class meeting. It is anticipated that the following courses will be offered during the 1965 Spring Session:

Psychological Foundations of Education, Parts I and II
Philosophical Foundations of Education, Parts I and II
Art for the Classroom Teacher
Guidance I, II, and VI
Supervision
Administration
Research and Evaluation
Methods and Materials in Special Education
Methods and Materials in Elementary Education
Methods and Materials in Secondary Education
Methods and Materials in Library Science
Spanish, Methods and Materials

It is anticipated that courses in the areas of biology, history, geography, mathematics, social studies, the creative arts, English, and the language arts will be offered.

COURSE DISCRIPTION

F-817 Language Arts in the Elementary School — Part I 3 Sem. Hrs.
The course is designed to acquaint teachers with the functional and creative aspects of oral and written expression in the modern elementary school . Consideration will be given to teaching procedures and learning aids which insure individual growth in language power and to representative courses of study and textbooks which emphasize the functional development of language power in relation to child growth.
Elizabeth R. Barlow — Monday 4:30-7:15 P.M.
beginning September 21, 1964

F-910 Case Studies in School Adjustment Counseling 3 Sem. Hrs.
The purpose of this course is to provide the basic understandings and principles used in modern School Adjustment programs in completing case studies for study of so-called problem children. Students will secure first hand experience in methods of analysis. Several field trips will be made during the semester.
Instructor to be announced — Monday 4:30-7:15 P.M.
beginning September 21, 1964

F-832 Civic Behavior — Democracy's Test 3 Sem. Hrs.
This course is designed to enable secondary and elementary school teachers and school officers to educate for democracy with clearer, stronger purpose. Building on the premise that every teacher is a teacher of citizenship, the course will suggest teaching materials and methods, student activities, and administrative and supervisory procedures which are directed toward more adequate preparation of students for the duties of citizenship. Effective school and community practices for increasing observance of law, intergroup good will, and political interest and intelligence will be stressed.
Robert W. Goss — Monday 4:30-7:15 P.M.
beginning September 21, 1964

F-836 Problems of U.S. Diplomacy: The Middle East 3 Sem. Hrs.
This course will examine the problems of policy making in dealing with the Middle East countries. It will stress economic and political conditions of the countries in the region, the economic and strategic interests of the United States and other great powers, past policies, and the Middle East as a battleground in the "Cold War." Specific topics include the Cyprus, Greek, and Turkish questions, the Arab-Israeli dispute, and relations with India and Pakistan.
Francis L. Jones — Monday 4:30-7:15 P.M.
beginning September 21, 1964

F-913 Organization and Administration of the Elementary School (School Administration II) 3 Sem. Hrs.
This course will emphasize the many facets of elementary school administration and organization. The role of the principal as an administrator in the larger setting of present day education will be stressed. Specifically,

the course will deal with the principal's role in organizing for teaching and learning, administering pupil personnel and special services, and integrating school and community life.

George Joseph — Monday 4:30-7:15 P.M. beginning September 21, 1964

F-902 Psychological Foundations of Education, Part I, Section A 3 Sem. Hrs.

This course covers the theoretical aspects of psychology for the classroom teacher. It includes a systematic analysis of the major schools of psychology and a study of the effects of heredity and environment. Reading in the following areas will be required: results of research on growth and development, theories of intelligence, concepts in measurement and evaluation, individual differences in capacity and achievement, and learning theory.

Joseph C. Lonergan — Monday 4:30-7:15 P.M. beginning September 21, 1964

F-844 Health Science 3 Sem. Hrs.

This course will be directed towards the needs and interests of educators who have had a minimum of, or no formal training in the health sciences. Certain basic questions concerning personal, classroom, school, and community health problems will be posed; and, by means of lectures and/or demonstrations, answers and modern interpretations to these questions will be presented and evaluated.

William K. Masterson — Monday 4:30-7:15 P.M. beginning September 21, 1964

F-904 Psychological Foundations of Education, Part II, Section A 3 Sem. Hrs.

This course is an advanced systematic exposition of various psychological principles related to teaching, with a special emphasis on the application of these principles to specific classroom situations. Readings will be required in the areas of: emotional growth, mental health, motivation, discipline, dynamics of interpersonal relationships, social psychology, and adolescent psychology.

Joseph A. Shea — Monday 4:30-7:15 P.M. beginning September 21, 1964

F-845 Insights Into Modern Mathematics — Sequence I 3 Sem. Hrs.

This course is designed to serve the needs of teachers of secondary mathematics. The content will be directed to the task of providing an understanding and mastery of recent developments in mathematics. Some of the topics to be presented are: the abstract nature of mathematics; mathematical systems; the concept of number; mathematical induction; decimal expansions, isomorphic systems; operating with sets; and several others as time permits.

Thomas Todd — Monday 4:30-7:15 P.M. beginning September 21, 1964

F-900 Philosophical Foundations of Education, Part I 3 Sem. Hrs.
This course is an historical approach to the study of educational thought and includes an examination of primary educational concepts which have evolved through western thought to the present day. Selections from the great documents in educational thought are studied in relation to the historical period in which they were produced. The student is expected to read and analyze the original contributions of the major educational philosophers.
Walter Busam — Tuesday 4:30-7:15 P.M.
beginning September 22, 1964

F-830 The Teaching of Music in Elementary Schools 3 Sem. Hrs.
This will be a practicum for the improvement of the teaching of music at all levels. The complete five-part music program of the schools will be analyzed and criticized. Some attention will be given to the latest and most successful teaching materials including: new basal series, the tape recorder, the rhythm band, other class instruments, and recordings. This course is open to all who are interested in music.
Thomas H. Carpenter — Tuesday 4:30-7:15 P.M.
beginning September 22, 1964

F-807 Supervision in Today's Schools 3 Sem. Hrs.
This course is designed as an introductory course in supervision for teachers, school administrators, and supervisors at both the elementary and secondary school levels. Significant topics included in the course are: concepts of supervision; principles of supervision; organization for supervision; group process; techniques of supervision; and the evaluation and improvement of instruction, curriculum, and the supervisory program. Opportunity will be provided for concentrated study and application of the materials of the course to elementary, secondary, or special subject work.
Note: This course, or its equivalent, is prerequisite for all advanced courses in supervision.
Elizabeth V. Foster — Tuesday 4:30-7:15 P.M.
beginning September 22, 1964

F-838 Political and Intellectual Movements of Modern Europe
3 Sem. Hrs.
Students will analyze the Enlightenment movement of the 18th century in Europe and the great Liberal movement it released through the period of the French Revolution. The emergence of Nationalism and the problems engendered by the Industrial Revolution and the unification of Italy and Germany provide a perspective for the rise of democracy, fascism, and communism.
Edwin R. Hedman — Tuesday 4:30-7:15 P.M.
beginning September 22, 1964

F-863 Methods and Materials in Teaching the Physical Sciences
3 Sem. Hrs.
This course is designed to enable secondary school teachers to review and evaluate the materials of instruction and teaching techniques in both

the separate and the integrated disciplines in the physical sciences. It should be of value to the secondary school faculties, other than physical science teachers, through its analysis of the role of the physical science studies in general education.

Melvin Merken — Tuesday 4:30-7:15 P.M. beginning September 22, 1964

F-848 Trigonometry — 3 Sem. Hrs.

The purpose of this course is to establish a working knowledge of trigonometric functions and equations; signs and functions of various angles; radians, variations, and graphs; and, the solution of plane and spherical triangles, including logarithmic solutions. The importance of trigonometry as an aid in the teaching of algebra and geometry will be emphasized throughout the course.

Edmund C. Osborne — Tuesday 4:30-7:15 P.M. beginning September 22, 1964

F-908 Techniques of Counseling, Guidance III — 3 Sem. Hrs.

This course is intended for teachers and others interested in guidance. Principles of counseling and the application of basic and advanced techniques to the counseling process will be included. Case studies and personal, educational, and vocational problems on the elementary, secondary, and college levels in counselor-situations will be presented.

Joseph P. Scannell — Tuesday 4:30-7:15 P.M. beginning September 22, 1964

F-809 Tests and Measurements — 3 Sem. Hrs.

This course considers the nature of measurement, its purpose and value in the learning situation, and the types of measuring techniques to be employed. Attention is given to the development of certain statistical concepts, facility in the selection and use of measuring instruments, and in the interpretation of the data secured.

Ruth V. Somers — Tuesday 4:30-7:15 P.M. beginning September 22, 1964

F-906 Research and Evaluation — 3 Sem. Hrs.

This course will stress the use of appropriate research methods in the selection and evaluation of data. It is designed to aid teachers in the preparation and understanding of educational research reports. Points of emphasis will include the nature of research, library techniques and resources, selection and delimitation of problems, documentation, organization and format of a report, appraisal of educational literature, necessary statistical concepts and methods of research. The student will be expected to demonstrate his knowledge of these in a term paper.

William L. Sullivan — Tuesday 4:30-7:15 P.M. beginning September 22, 1964

F-814 Introduction to Audio-Visual Methods and Materials — 3 Sem. Hrs.

This is an introductory course for the classroom teacher in the utilization of all types of audio-visual materials for improving instruction. By means

of lecture, discussion, and demonstration students will learn the criteria in selection of materials, planning for their use, evaluation of methods, advantages and limitations of various materials, and implications of research. Each class member learns the operation of mechanical equipment as well as sources of audio-visual materials for the various curricula.

Paul Davis — Wednesday 4:30-7:15 P.M. beginning September 23, 1964

F-800 The Improvement of Instruction 3 Sem. Hrs.

In this course, a study will be made of procedures for developing growth and strengths in the teaching of school subjects in the elementary and secondary schools. Practical solutions to everyday problems gained from experience will be shared by class members.

Ruth Griffiths — Wednesday 4:30-7:15 P.M. beginning September 23, 1964

F-903 Psychological Foundations of Education, Part II, Section B
3 Sem. Hrs.

This course is an advanced systematic exposition of various psychological principles related to teaching, with a special emphasis on the application of these principles to specific classroom situations. Readings will be required in the areas of: emotional growth, mental health, motivation, discipline, dynamics of interpersonal relationships, social psychology, and adolescent psychology.

Achille A. Joyal — Wednesday 4:30-7:15 P.M. beginning September 23, 1964

F-902 Psychological Foundations of Education, Part I, Section B
3 Sem. Hrs.

This course covers the theoretical aspects of psychology for the classroom teacher. It includes a systematic analysis of the major schools of psychology and a study of the effects of heredity and environment. Reading in the following areas will be required: results of research on growth and development, theories of intelligence, concepts in measurement and evaluation, individual differences in capacity and achievement, and learning theory.

George F. Madaus — Wednesday 4:30-7:15 P.M. beginning September 23, 1964

F-812 Principles and Practices in Guidance 3 Sem. Hrs.

This is an introductory course designed to provide the student with an understanding of the need, meaning, and scope of guidance services. The principles and practices involved in the following guidance areas will be considered: introduction and philosophy of guidance; understanding the individual and his needs; essential orientation activities for the student; collecting, recording, and evaluating data; interviewing and counseling; guidance through group activities; placement and follow-up activities; organization and evaluation of guidance. The emphasis of the course

will be placed upon the role of the classroom teacher in the guidance program.
Note: This course or its equivalent is a prerequisite to all advanced courses in guidance.
Paul J. McCarron — Wednesday 4:30-7:15 P.M. beginning September 23, 1964

F-846 Modern Mathematics for Elementary School Teachers 3 Sem. Hrs.
This course will develop a working knowledge of the mathematical concepts basic to programs for elementary schools. Selected topics common to the various programs in modern mathematics will be treated in considerable detail to develop the background materials essential for successful teaching. Some of the topics to be covered are: basic concepts of sets, venn diagrams, arithmetic in bases other than ten, intuitive geometry, inequalities, natural numbers, integers, rational numbers, real numbers, etc.
Paul F. O'Neil — Wednesday 4:30-7:15 P.M. beginning September 23, 1964

F-829 Urban Geography 3 Sem. Hrs.
In this geography study significant aspects of the nature of cities and urbanization will be explored: location, size, function, internal structure, and the arrangement of land uses; the urban population; our modern urban problems, such as traffic and transportation, "slums" and redevelopment, "urban sprawl," open space and recreation; city planning and zoning. Students will be assisted in completing such a study of their own communities.
Richard W. Reseska — Wednesday 4:30-7:15 P.M. beginning September 23, 1964

F-890 Spanish 3 Sem. Hrs.
Students in F-890 will complete a review of Spanish-language fundamentals complemented by readings in Spanish civilization and culture. Supplementary course content will be adapted to the interests of the students.
Katharine M. Shea — Wednesday 4:30-7:15 P.M. beginning September 23, 1964

F-816 Dramatic Interpretation and Direction 3 Sem. Hrs.
Students in F-816 will make a thorough study and practice of staging and coaching techniques involved in dramatic presentations. Although designed primarily for those concerned with directing the high school drama program, this course is open to all others interested in utilizing dramatic and oral interpretation as additional classroom techniques. Students will be aided in adapting selected materials for this type of presentation in their own classrooms.
Robert E. Todd — Wednesday 4:30-7:15 P.M. beginning September 23, 1964

F-881 Methods and Materials in Teaching Social Studies 3 Sem. Hrs.
This course is planned specifically to acquaint teachers with the recommendations which have come from Social Studies Research. The objectives of the social studies, selection and organization of materials, techniques of teaching in order to provide for the needs and interests of pupils of varying abilities, and evaluation in social studies will be stressed. Individual and group work in problems of special interest to class members will be part of the course.
Vera M. Dowden — Thursday 4:30-7:15 P.M. beginning September 24, 1964

F-885 School Library Organization and Administration 3 Sem. Hrs.
This course is intended to cover the theory and practice of organizing and administering a library of materials and a program of service fundamental to the achievement of educational goals in elementary, junior, and senior high schools. The functions, maintenance, control, planning, and equipping of a school library will be stressed, along with the relationship between librarian, school administration, and the instructional program.
William D. Joyce — Thursday 4:30-7:15 P.M. beginning September 24, 1964

F-813 Modern Trends and Techniques in Early Childhood Education 3 Sem. Hrs.
Through media which include group discussions and committee reports on assigned readings and projects, class members will study and evaluate curriculum trends in Early Childhood Education. Suggested applications will be given. Emphasis will be focused on unit activities for younger children. Parents and community contacts, research in music and art, and individual problems will be stressed.
Elizabeth A. Mahan — Thursday 4:30-7:15 P.M. beginning September 24, 1964

F-820 The Modern Essay — An Emphasis on Perception and Judgment 3 Sem. Hrs.
A study of a wide range of provocative essays of vigorous style and of modern attitudes will be made. Stress will be placed on excellence of form, cogency of ideas, and creativity of expression. Formal and informal types are to be included. Lectures, special reports, and panel discussions will deepen the students' appreciation of the Essay.
Kathryn R. O'Donnell — Thursday 4:30-7:15 P.M. beginning September 24, 1964

F-905 Diagnostic and Remedial Techniques in Teaching 3 Sem. Hrs.
A course designed to help teachers become acquainted with: 1. basic techniques of psychological diagnosis; 2. a knowledge of ways and means of remedying various disabilities when causes of difficulty have been discovered. Lectures will develop an understanding of individual differences in learning ability, of problems of improving skills in basic school sub-

jects, of methods of studying the individuals so as to prepare for remedial teaching.
Helga E. Peterson — Thursday 4:30-7:15 P.M. beginning September 24, 1964

F-902 Philosophical Foundations of Education, Part II 3 Sem. Hrs.
This course makes application of the philosophical bases of education to recurrent and contemporary educational issues and problems. Each topic is studied from the viewpoint of each of the major philosophical systems and the related educational concepts in order to determine to what extent a synthesis of viewpoint may be achieved.
Joseph W. Riordan — Thursday 4:30-7:15 P.M. beginning September 24, 1964

F-907 Occupational Information, Guidance V 3 Sem. Hrs.
This course is designed to help administrators, counselors, and teachers to better meet the needs of youth through complete guidance techniques. The course is organized to help develop competencies in the following areas of Occupational Information: classification and description of jobs and industries, occupational trends in relation to socio-economic changes, collecting information, filing information and evaluating information about occupations and training. Emphasis will be placed upon the using of Occupational Information, with groups and with individuals, in the public school system.
G. Flint Taylor — Thursday 4:30-7:15 P.M. beginning September 24, 1964

F-839 American Colonies and the Revolution 3 Sem. Hrs.
This course is concerned with the following topics: the settlement and growth of the English colonies in America; England's colonial policies, economic and institutional developments in the provincial period; the wars with the Indians; the causes of the Revolution; and the American Revolution.
Francis G. Walett — Thursday 4:30-7:15 P.M. beginning September 24, 1964

F-911 Educational Data Processing - School Administration, VII
This course is designed as an introduction to punched card data processing, its history and evolution. The course covers in detail the principles of punched card design, forms design, coding, flow charting, card punch operations, accounting machine operations, and an introduction to functional wiring principles.

Among the applications to be covered will be: 1) Student Personnel Accounting: scheduling, attendance, school census, class lists, testing results, bus lists, etc. 2) Business Accounting: payrolls, inventories, appropriation accounting, and budgets, and 3) Curriculum. Demonstrations will be arranged from time to time to illustrate the various functions.
James W. Dailey — Thursday 4:30-7:15 P.M. beginning September 24, 1964

REGISTRATION BLANK

Registration blanks should be forwarded immediately, accompanied by a check or money order payable to the State College at Worcester. No registration is complete without accompanying fee.

Clip and mail to:

MR. CORNELIUS S. DONOGHUE, Director

or

MR. JOHN F. EAGER, Associate Director
Program of Continuing Studies
State College at Worcester
Worcester, Massachusetts

COURSE **CREDITS (Check)**

..... B.S.E. ( ) M.Ed. ( ) OTHER ( )

..... B.S.E. ( ) M.Ed. ( ) OTHER ( )

..... B.S.E. ( ) M.Ed. ( ) OTHER ( )

Name .....

Street .....

City or Town .....

Veteran? .....